Applicant: Koshi Ando et al. Attorney's Docket No.: 14804-010001 / K-459

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## Amendments to the Specification:

Please replace the previous abstract at page 39 with the following amended abstract:

--A blue-ultraviolet on-p-GaAs substrate pin Zn1-xMgxSySe1-y photodiode with high quantum efficiency, small dark current, high reliability and a long lifetime. The ZnMgSSe photodiode has a metallic p-electrode, a p-GaAs single crystal substrate, a p-(ZnSe/ZnTe)m superlattice (m: integer number of sets of thin films), an optionally formed p-ZnSe buffer layer, a p-Zn1-xMgxSySe1-y layer, an i-Zn1-xMgxSySe1-y layer, an n-Zn1-xMgxSySe1-y layer, an n-leectrode and an optionally provided antireflection film. Incidence light arrives at the i-layer without passing ZnTe layers. Since the incidence light is not absorbed by ZnTe layers, high quantum efficiency and high sensitivity are obtained. --

A blue-ultraviolet on p GaAs substrate avalanche Zn1-xMgxSySe1-y photodiode with high sensitivity, high quantum efficiency, a wide sensitivity range, high reliability and a long lifetime. The ZnMgSSe avalanche photodiode has a metallic p electrode, a p GaAs single erystal substrate, a p (ZnSe/ZnTe)m superlattice (m: integer number of sets of thin films), an optionally formed p-ZnSe buffer layer, a p Zn1-xMgxSySe1-y layer, a lower doped n—Zn1-xMgxSySe1-y layer, a higher doped n+-Zn1-xMgxSySe1-y layer, an n-electrode and an optionally provided antireflection film.—Since the incidence light is not absorbed by ZnTe layers, a—high avalanche gain, high quantum efficiency and high sensitivity are obtained.